VINOGRADOV, M.Ye.

Vertical migrations of zooplankton and their role in feeding bathypelagic fauna. Trudy Inst.okean. no.13:71-76 '55. (MLRA 8:11)
(Zooplankton)

BIRSHTEYN, Ya.A.; VINOGRADOV, M.Ye.

Notes on the feeding habits of deep-water fishes of the Kurile-Kamchatka Trench. Zool.zhur. 34 no.4:842-849 Jl-Ag '55. (MIRA 8:9)

1. Moskovskiy gosudarstvennyy universitet imeni M.V.Lomonosova i Institut okeanologii Akademii nauk SSSR
(Kurile Trench--Fishes--Food)

Vinogradov, M. Ye.

USSR/ Biology - Hydrobiology

Card 1/1 Pub. 22 - 48/53

Authors : Bogorov, V. G., and Vinogradov, M. Ye.

Title : The zooplankton of the northwestern part of the Pacific Ocean

Periodical : Dok. AN SSSR 102/4, 835-838, Jun 1, 1955

Abstract : Hydrobiological data are presented on the zooplankton of the northwestern part of the Pacific Ocean in the region of the Kuril Islands. Eight references: 2 English and 6 USSR (1938-1955). Diagrams.

Institution : Acad. of Sc., USSR, Inst. of Oceanology

Presented by : Academician A. A. Grigoryev, March 14, 1955

BIRSHTEYN, Ya.A.; VINOGRADOV, M.Ye.; CHINDONOVA, Yu.G.

Vertical distribution of plankton in the Kurile-Kamchatka Trench. Trudy probl.i tem.sov. no.6:17-18 '56. (MLRA 9:11)

1. Institut okeanologii AN SSSR i Moskovskiy gosudarstvennyy universitet.

(Kurile Trench--Plankton)

VINOGRADOV, M.Ye.

Distribution of zooplankton in western areas of the Bering Sea. Trudy Gidrobiol.ob-va 7:173-203 '56. (MLRA 10:2)

1. Institut okeanologii Akademii nauk SSSR.
(Bering Sea--Zooplankton)

VINOGRADOV, M.Ye.

Amphipoda-Hyperiidea of the western Bering Sea [English summary in insert]
Zool.zhur. 35 no.2:194-218 F '56. (MLRA 9:7)

1.Institut okeanologii AN SSSR.
(Bering Sea--Amphipoda)

VINOGRADOV, M. YE.

AUTHOR: Vinogradov, M.Ye., Candidate of Biological Sciences 26-10-14/44

TITLE: Lakes of the Antarctic "Oasis" (Ozera antarkticheskogo "oazisa"))

PERIODICAL: Priroda, 1957, No 10, pp 89-92 (USSR)

ABSTRACT: The author accompanied an expedition to the "Bandzhera Oasis" in Antarctica in January 1956 and gives a description of the lakes he saw there. The oasis covers an area of approximately 600 sq km and is located in the midst of a snowy wilderness in the area of Knox's Shore. It is free of snow and ice and abounds in lakes many of which are not frozen. The author distinguishes between three types of lakes. One category contains completely fresh and clear water which comes from continental glaciers. These lakes are of varying lengths (3 to 5 km). They show various kinds of algae and are inhabited by small crabs of the Acanthocyclops family. Another category of lakes is oval shaped and contains brackish water with seaweeds on the bottom. They are found in snowless valleys and have no outlets. They are inhabited by very small swimming worms. The third type is located in the northwestern part of the oasis. They are actually bays extending far into the mainland. Their mouths are covered with eternal ice while the bays themselves are water. These fiords show

Card 1/2

Lakes of the Antarctic "Oasis"

the greatest variety of seaweed and animal life, like copepoda, starfish and small Antarctic fish.
There are 4 photos.

ASSOCIATION: Institute of Oceanology of the USSR Academy of Sciences (Moscow)
(Institut okeanologii AN SSSR (Moskva)

AVAILABLE: Library of Congress

VINOGRADOV, M.Ye.

Hyperiidea (Amphipoda-Hyperiidea) of the northwestern Pacific Ocean. Trudy Inst. okean. 20:186-227 '57. (MIRA 10:12)
(Pacific Ocean--Amphipoda)

BORUTSKIY, Ye.V.; VINOGRADOV, M.Ye.

Occurrence of Cyclopidae (Acanthocyclops mirnyi, sp.n.) on the Antarctic Continent [with summary in English]. Zool. zhur. 36 no.2:199-203 F '57. (MLRA 10:6)

1. Zoologicheskiy muzey Moskovskogo gosudarstvennogo universiteta i Institut okeanologii Akademii nauk SSSR.
(Queen Mary Coast--Copepoda)

Vinogradov, M. E.

USSR/General Biology - General Hydrobiology. B-6

Abs Jour : Ref Zhur - Biol., No 4, 1958, 14455

Author : Brodskiy, K.A., Vinogradov, M.E.
Inst : -
Title : Plankton Distribution in the Indian (?) Sector of Antarctica (from Data of the Ist Voyage of the Combined Antarctic Expedition of the Academy of Sciences, USSR).

Orig Pub : Dokl. AN SSSR, 1957, 112, No 5, 957-960

Abstract : Based on plankton collections conducted on the first voyage of the "Ob" from February 29 to June 3, 1956, it was established that for this period the zone richest in phytoplankton (2.6 g/m^3) lies directly near the shores of Antarctica; zooplankton develops most abundantly in the zone between the northern border of the floating ice belt and 63-64° south. lat. The average plankton biomass in this zone of the Antarctic in the period of biological summer (0.317 g/m3) is close to (a little lower) the plankton

Card 1/2

USSR/General Biology - General Hydrobiology. B-6

Abs Jour : Ref Zhur - Biol., No 4, 1958, 14455

biomass of some seas of the Northern Hemisphere (Barents, Bering, Okhotsk Seas and the waters of Kurilo-Kamchatka inlets).

Card 2/2

VINOGRADOV, M. Ye.

3(5) PHASE I BOOK EXPLOITATION SOV/1637

Akademiya nauk SSSR. Komplesknaya antarkticheskaya ekspeditsiya.

Opisaniye ekspeditsii na dizel'-elektrokhode "Ob", 1955-1956 gg. (Description of the Expedition aboard the Diesel-electric ship "Ob," 1955-1956) Moscow, Izd-vo AN SSSR, 1958. 237 p. 2,000 copies printed.

Sponsoring Agency: Akademiya nauk SSSR. Sovet po antarkticheskim issledovaniyam. Chief Ed.: I. P. Bardin, Academician; Resp. Ed. for this vol.: V.G. Kort, Professor, Chief, 1st trip of the Marine Antarctic Expedition, USSR Academy of Sciences; Editorial Board: A.A. Afanas'yev (Chief, Main Administration of the Northern Sea Route, Sea Route, MOT), V.G. Bakayev (Minister of Sea Transport), V. P. Burkhanov (Deputy Chief, Main Administration of the Northern Sea Route), A.A. Zolotukhin (Chief, Main Administration of the

Card 1/9

Hydrometeorological Service), V.G. Kort (Professor, Chief, 1st trip of the Marine Antarctic Expedition, USSR Academy of Sciences), M.M. Somov (Chief, Combined Antarctic Expedition, USSR Academy of Sciences), V. V. Frolov (Director, Arctic Scientific Research Institute, Main Administration of the Northern Sea Route), D. I. Shcherbakov (Chairman, Council for Antarctic Research, USSR Academy of Sciences; Eds. of Publishing House: L.I. Sprygina, and B. S. Zhokhov; Tech. Ed.: P. S. Kashina.

PURPOSE: This volume is intended for the general reader.

COVERAGE: The Report of the Combined Antarctic Expedition of the AN SSSR, headed by M. M. Somov, contains an account of the work on the first trip of the Diesel-electric ship "Ob" to the Antarctic and the aims and problems involved, including the establishment of an observatory at Mirnyy. A major part of the book is devoted to scientific research in geology, meteorology and astronomy,

Card 2/9

accomplished in cooperation with the IGY program. A large part of the observations and preliminary findings cited are in the field of hydrology and hydrochemistry, marine geology, geophysics, hydrography, and hydrobiology. A roster of the members of the expedition together with their specialities is included. There are 72 figures, including maps. Bibliographic references accompany separate chapters.

TABLE OF CONTENTS:

Card 3/9

Card 7/9

VINOGRADOV, M.Ye., kand.biol.nauk; NAUMOV, A.G., aspirant

Quantitative distribution of plankton in Antarctic waters of the Indian and Pacific oceans. Inform.biul.Sov.antark.eksp. no.3:31-33 '58. (MIRA 12:4)

1. Institut okeanologii AN SSSR.
(Antarctic regions--Plankton)

BOGOROV, V.G.; VINOGRADOV, M.Ye.

Distribution of zooplankton in the northwestern part of the Pacific Ocean. Trudy Okean. kom. 3:100-101 '58. (MIRA 11:8)
(Pacific Ocean--Zooplankton)

VINOGRADOV, M. Ye.

"Quantitative Distribution of Deep-Sea Plankton in the Western Pacific and its Relation to Deep Water Circulation".
report to be submitted for the Intl. Oceanographic Cong. New York City, 31 Aug - 11 Sep 1959.

(Inst. of Oceanology, Moscow)

VINOGRADOVA, N.G.; BIRSHTEYN, Ya.A.; VINOGRADOV, M.Ye.

Vertical distribution of deep-water bottom fauna. Itogi nauki: Dost.okean. no.1:166-187 '59. (MIRA 12:10)
(Marine fauna)

VINOGRADOV, M.Ye.

Vertical migration of the deep-water zooplankton. Itogi nauki. Dost.okean. no.1:204-220 '59. (MIRA 12:10)
(Plankton)

VINOGRADOV, M.Ye.

Vertical distribtuion of marine zooplankton. Trudy Inst.okean. 30:100-106 '59. (MIRA 13:5)
(Zooplankton)

BIRSHTEYN, Ya.A.; VINOGRADOV, M.Ye.

Zoological research done by the expeditionary ship "Vitiaz" during her 25th voyage. Zool. zhur. 38 no.2:301-304 F '59. (MIRA 12:3)

(Pacific Ocean--Marine fauna)

VINOGRADOV, M.Ye.; VINOGRADOVA, N.G.

Zoological research during the 26th voyage of the expeditionary ship "Vitiaz'". Zool. zhur. 38 no.4:649-652 Ap '59. (MIRA 12:5)

1. Institut okeanologii AN SSSR, Moskva.
(Pacific Ocean--Marine fauna)

3 (9)
AUTHOR: Vinogradov, M. Ye.

SOV/20-127-4-43/60

TITLE: On the Quantitative Distribution of Deep-sea Plankton in the Western Part of the Pacific Ocean and Its Relations to the Circulation of Abyssal Waters

PERIODICAL: Doklady Akademii nauk SSSR, 19[illegible], Vol 127, Nr 4, pp 877-880 (USSR)

ABSTRACT: The data on the topic mentioned in the title are very scarce and regard depths above 2000-3000 m. The distribution mentioned in the title, however, does not only permit to observe individual penetrating water jets but also the general shift of large amounts of water. The material used in the present paper was taken from different layers by the ships "Vityaz'" and "Ob'" at 20 stations in the Pacific Ocean between 50° northern and 63° southern latitude (Fig 1). The enrichment of the plankton of the tropical deep layers is explained by the entering of abyssal waters from the boreal region as had been mentioned before (Refs 7, 8). These abyssal waters contain comparatively rich deep-sea plankton of the temperate zones and a large quantity of organic substance. Its high degree of plankton concentration decreases with the movement towards the equator and the transformation of these waters because the plankton perishes or

Card 1/3

is eaten up. The products of the vital activity of the plankton, its residues, and finally, the plankton itself serve as food for the tropical deep-sea organisms. Thus increased plankton concentration is maintained in these layers despite of a rather quick displacement of the "population". The organic substance carried by horizontal currents from more productive parts of the ocean provides additional food for deep-sea plankton. The most thorough meridional shift of the abyssal waters takes place in the western part of the North Pacific Ocean (below 500 m). There seems to be no counter-current of the abyssal waters (contrary to Ref 9). There is a different situation in the south-western part of the Ocean. North-east of New Zealand the enrichment of deep-sea plankton takes place in the layer 500-1000 m and below 2000 m (Fig 2). This corresponds to an underflowing of the Antarctic waters but is less intense than in the region south-west of Japan. Thus the plankton distribution in the southern hemisphere agrees with the circulation scheme by G. Wüst (Ref 10) and later authors (Refs 9, 10). There is no uniform opinion with regard to abyssal circulation of the northern hemisphere. The

On the Quantitative Distribution of Deep-sea Plankton in the Western Part of the Pacific Ocean and Its Relations to the Circulation of Abyssal Waters SOV/20-127-4-43/60

only fact known is that the character of the movement of the abyssal waters assumed by the author on account of the distribution of the plankton biosubstance is in good agreement with the circulation scheme by V. N. Stepanov (of the institute mentioned in the Association). The underflowing of abyssal waters from temperature latitutes is also proved by the analysis of qualitative plankton composition. In conclusion, comparisons are made with other oceans. There are 2 figures and 16 references, 6 of which are Soviet.

ASSOCIATION: Institut okeanologii Akademii nauk SSSR (Institute of Oceanography of the Academy of Sciences, USSR)

PRESENTED: March 30, 1959, by D. I. Shcherbakov, Academician

SUBMITTED: March 24, 1959

Card 3/3

BOGOROV, V.G.; VINOGRADOV, M.Ye.

Distribution of the biomass of zooplankton in the central Pacific. Trudy Gidrobiol. ob-va 10:208-223 '60.
(MIRA 13:9)

(Pacific Ocean--Zooplankton)

BOGOROV, V.G.; VINOGRADOV, M.Ye.

Distribution of zooplankton in the Kurile-Kamchatka area of the Pacific Ocean. Trudy Inst. okean. 34:60-84 '60. (MIRA 13:10)
(Pacific Ocean--Zooplankton)

BIRSHTEYN, Ya.A.; VINOGRADOV, M.Ye.

Pelagic gammarids in the tropical part of the Pacific Ocean.
Trudy Inst. okean. 34:165-241 '60. (MIRA 13:10)
(Pacific Ocean--Amphipoda)

VINOGRADOV, M. Ye.

Quantitative distribution of deep-sea plankton in the western and central Pacific. Trudy Inst. okean. 41:55-84 '60. (MIRA 13:9)
(Pacific Ocean--Zooplankton)

VINOGRADOV, M. Ye.

Hyperiidea physosomata in the tropical regions of the Pacific Ocean. Trudy Inst. okean. 41:198-247 '60. (MIRA13:9)
(Pacific Ocean--Amphipoda)

VINOGRADOV, M.Ye.

A new species of Chuneolidae (Amphipoda, Crustacea) from the northwestern Pacific. Trudy Inst. okean. 41:248-253 '60. (MIRA 13:9)
(Pacific Ocean--Amphipoda)

VINOGRADOV, M.Ye.

Plankton of deep waters of the Sea of Japan. Zool.zhur. 39 no.4:500-508 Ap '60. (MIRA 13:11)

1. Institute of Oceanology of the U.S.S.R. Academy of Sciences, Moscow. (Japan, Sea of--Plankton)

VINOGRADOV, M.YE.

Papers submitted for the 10th Pacific Science Congress, Honolulu, Hawaii 21 Aug-6 Dec 1961.

VINOGRADOV, M.Ye.; VORONINA, N.M.

Effect of oxygen deficiency on the distribution of plankton in the Arabian Sea. Okeanologiia 1 no.4:670-678 '61. (MIRA 14:11)

1. Institut okeanologiia AN SSSR.
(Arabian Sea--Plankton) (Oxygen--Physiological effect)

BELYAYEV, G.M.; VINOGRADOV, M.Ye.

Zoological research carried out during the 31st cruise of the expeditionary ship "Vitiaz'." Zool. zhur. 40 no. 2:303-308 F '61. (MIRA 14:2)
(Indian Ocean—Marine fauna—Research)

VINOGRADOV, M.Ye.

Food sources of deep-sea fauna; decomposition rate of dead Pteropoda. Dokl.AN SSSR 138 no.6:1439-1442 Je '61. (MIRA 14:6)

1. Institut okeanologii AN SSSR. Predstavleno akademikom N.M. Strakhovym.

(Zooplankton) (Pteropoda)

VINOGRADOV, M.Ye.; VORONINA, N.M.

Distribution of some copepod species occurring in large masses in the Indian Ocean. Dokl. AN SSSR 140 no.1:219-222 S-O '61. (MIRA 14:9)

1. Institut okeanologii AN SSSR. Predstavleno akademikom A.L. Kursanovym.

(Indian Ocean--Copepoda)

VINOGRADOV, M.Ye.

Quantitative distribution of abyssal plankton in the northern part of the Indian Ocean. Okeanologiia 2 no.4:577-592 '62. (MIRA 15:7)

1. Institut okeanologii AN SSSR.
(Indian Ocean--Plankton)

VINOGRADOV, M.Ye.; PARIN, N.V.; SAVILOV, A.I.

Marine biology. Okeanologiia 2 no.3:493-505 '62. (MIRA 15:7)
(Marine biology)

VINOGRADOV, M.Ye.; VORONINA, N.M.

Some features of the distribution of zooplankton in the northern part of the Indian Ocean.. Trudy Inst. okean. 58:80-113 '62. (MIRA 15:12)
(Indian Ocean—Zooplankton)

VINOGRADOV, M.Ye.; BELOUSOV, I.M.

Second International Oceanographic Congress. Izv. AN SSSR. Fiz. atm. i okeana 2 no.1:97 Ja '66. (MIRA 19:1)

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ACC NR: AP6014285 (N) SOURCE CODE: UR/0213/66/006/002/0314/0325

36
2

AUTHOR: Bogorov, V. G.; Bordovskiy, O. K.; Vinogradov, M. Ye.

ORG: Institute of Geology and Development of Mineral Fuels (Institut geologii i razrabotki gopyuchikh iskopayemykh); Institute of Oceanology, AN SSSR (Institut okeanologii AN SSSR)

TITLE: Biochemistry of ocean plankton. Distribution of certain chemical components of plankton in the Indian Ocean

SOURCE: Okeanologiya, v. 6, no. 2, 1966, 314-325

TOPIC TAGS: calcium carbonate, carbon, ~~plankton, biomass, phytoplankton~~ SEA WATER, PLANT ECOLOGY, BIOLOGIC ECOLOGY, BIOCHEMISTRY

ABSTRACT: The material for this study was collected by the research vessel "Vityaz'" during the 31st cruise in the Indian Ocean in October 1959 and April 1960. An 0—100 m layer of the ocean floor was sampled. The samples were dried without fixing. Calcium carbonate, organic carbon, and lipide contents were determined. The organic carbon content of the plankton investigated averages 29.9% (ranging from 24.2 to 35.6%) of the dry weight. The lowest plankton carbon content was observed in areas of intensive upwelling where an essential part of the total biomass is composed of phytoplankton (diatoms). Because of the constant relative amount of organic carbon in plankton, its absolute distribution in the upper 100-m layer generally follows rather closely the distribution pattern of the total plankton biomass. The lipide fraction content ranges from 6.4 to 13.6%, averaging 9.4% of the dry weight. Plankton

Card 1/2 UDC: 550.42:517/475(267)

ACC NR: AP6014285

is especially rich in lipide where it has maximum concentration. A high correlation between the amount of lipide in plankton and the depth of the upper boundary of the depth of the upper boundary of the thermocline was found. A similarly high correlation exists between the lipide content of the plankton and the temperature at the depth of 100 m. The data obtained lead to the conclusion that an increase or decrease in the lipide content of plankton is closely connected with environmental conditions. The distribution pattern of absolute amounts of lipide follows the general biomass distribution pattern of plankton. The calcium carbonate content averages 11.7% (ranging from 4.8 to 21%) of the dry weight. Comparison of the carbonate content of plankton with the distribution of pteropods and globogerins shows that, apparently, the calcium carbonate content of tropical plankton is determined, first of all, by the amount of globigernia. Orig. art. has: 4 figures and 1 table. [Based on authors' abstract.] [NT]

SUB CODE: 08, 11/ SUBM DATE: 24Dec65/ ORIG REF: 022/ OTH REF: 008

Card 2/2

VINOGRADOV, M.Ye.; VORONINA, N.M.

Distribution of plankton in the waters of the equatorial currents of the Pacific Ocean. Report No.2: Vertical distribution of different species. Trudy Inst. okean. 65:58-76 '64. (MIRA 18:8)

VINOGRADOV, M.Ye.

Hyperiidea Physosomata of the northern part of the Indian Ocean. Trudy Inst. okean. 65:106-151 '64. (MIRA 18:8)

VINOGRADOV, M.Ye.

Hyperiids (Amphipoda) collected by the Soviet Antarctic Expedition on the diesel-electric ship "Ob'" south of 40°S. Issl. fauny mor. (MIRA 17:9)
1:5-35 '62.

1. Institut okeanologii AN SSSR.

VINOGRADOV, M.Ye.; VORONINA, N.M.

Distribution of plankton in waters of the Pacific equatorial currents. Trudy Inst. okean. 71:22-59 '63. (MIRA 16:11)

BIRSHTEYN, Ya.A.; VINOGRADOV, M.Ye.

Deep-sea pelagic amphipods of the Philippine Trench. Trudy Inst. okean. 71:81-93 '63. (MIRA 16:11)

BIRSHTEYN, Ya.A.; [illegible], M.Ye.

Pelagic gammarids (Amphipoda, Gammaridea) collected by the Soviet Antarctic Expedition on the diesel-electric ship "Ob'" south of 40° S. Issl. fauny [illegible]. :36-57 '62. (MIRA 17:9)

1. Moskovskiy gosudarstvennyy universitet (for Birshteyn).
2. Institut okeanologii AN SSSR (for Vinogradov).

VINOGRADOV, N.

Soaring... under the water. Voen. znan. 40 no.4:43 Ap '64.
(MIRA 17:6)

VINOGRADOV, N.; MUROMKINA, L.

We are mobilizing potentialities. Okhr. truda i sots. strakh. 5 no.6: 13-14 Je '62. (MIRA 15:7)

1. Zaveduyushchiy otdelom sotsial'nogo strakhovaniya Ul'yanovskogo oblastnogo soveta profsoyuzov (for Vinogradov). 2. Doverennyy vrach Ul'yanovskogo oblastnogo soveta profsoyuzov (for Muromkina).
(Ul'yanovsk Province—Medicine, Industrial)

VINOGRADOV, N.

Distribution of enterprises and supply areas of the food industry.
Vop.ekon. no.6:39-54 Je '56. (MLRA 9:8)
(Food industry)

AFANASENKO, Ye.A.; KAIROV, I.; VINOGRADOV, N.

Organization of housekeeping chores in general schools, boarding schools, and orphanages. Gig. i san. 25 no. 6:111-114 Je '60. (MIRA 14:2)

1. Ministr prosveshcheniya RSFSR (for Afanasenko). 2. Prezident Akademii pedagogicheskikh nauk (for Kairov). 3. Ministr zdravookhraneniya RSFSR (for Vinogradov).
(STUDENT ACTIVITIES)

1. VINOGRADOV, N.

2. USSR (600)

4. Rozova, Sof'ia Nikolaevna

7. An interesting book ("A half century in school." S. Rozova, Reviewed by N. Vinogradov.) Nach. shkola 21, No. 5, 1953.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

VINOGRADOV, N.

Team financial responsibility is an important prerequisite for the improvement of trade. Sov. torg. no.11:13-15 N '58.
(MIRA 11:12)

(Commerce)

VINOGRADOV, N.

Volga River

Pioneer assembly in the 7th class. Geog. v shkole No. 5, 1952.

Monthly List of Russian Accessions, Library of Congress, December 1952. Unclassified.

VINOGRADOV, N., admiral

Reliable watch on the sea frontiers of the country. Voen. znan. 38 no.7:3-4 Jl '62. (MIRA 15:6)
(World War, 1939-1945--Naval operations) (Russia--Navy)

672. DESIGN AND ADJUSTMENT OF ORIFICE TYPE DOSERS. Vinogradov, M.A. (Elekt. Sta. (Par Sta., Moscow), Nov. 1953, vol. 24, 20-23). Considerable non-uniformity often exists in the injection of coagulants and other reagents into the feed water of power station boilers. The article presents calculations to explain how this defect can be overcome by suitable adjustment of the dosing device. B.E.A.

62

VINOGRADOV, N.A., inzhener.

Reducing personnel in the turbine plants of electric power stations.
Energetik 5 no.6:8 Je '57. (MLRA 10:7)
(Electric power plant)

LEVCHENKO, M.I.; VINOGRADOV, N.A.

Machine tool for cutting circular glass. Stek.i ker. 14 no.8:22-23 Ag '57. (MIRA 10:10)

(Glass cutting)

SOV/72-59-11-14/15

AUTHORS: Levchenko, M. I., Kondakova, M. N., Vinogradov, N. A., Baranov, D. I.

TITLE: Apparatus for the Production of Bent Glass (Ustanovka dlya proizvodstva gnutogo stekla)

PERIODICAL: Steklo i keramika, 1958, Nr 11, pp 44-46 (USSR)

ABSTRACT: The apparatus was developed and introduced by a group of engineers in the Gusevskiy Factory. It consists mainly of an electro-furnace (see figure). The mount for molding (mollirovaniye) possesses the desired form for the bent glass and is constructed of heat-resistant steel. It is fastened to a slide, which can be moved along rails in the furnace. On this molding form bent wind shields for the "Volga" and "Moskvich" automobiles are produced. The glass packets are prepared in regard to size and strength, and are exactly aligned and attached securely to the slide, and then is introduced into the furnace through a fore-hearth of the furnace. At a furnace temperature of 590-620° the glass becomes deformed and assumes the shape of the molding form. This process lasts 6 to 8 minutes and can be

Card 1/2

watched through an aperture in the furnace door. Afterward the glass is allowed to stand at the open furnace door for about 4 minutes, and then it is removed from the furnace and allowed to cool completely. After cleaning and testing the glass objects are brought to the factory for the assembly. The glass for the"Moskvich" automobiles is further hardened on a formed blast grill beside the furnace. There is 1 figure.

ASSOCIATION: Gusevskoy stekol'nyy zavod imeni Dzerzhinskogo (Gusevskoy Glass Works imeni Dzerzhinskiy)

8(0) PHASE I BOOK EXPLOITATION SOV/3142

Tsentral'nyy nauchno-issledovatel'skiy institut tekhnologii i mashinostroyeniya

Spravochnyye dannyye po elektrooborudovaniyu (Reference Data on Electric Equipment) Moscow, Mashgiz, 1959. 711 p. (Series: Its: [Trudy] kniga 94)

Errata slip inserted. 6,000 copies printed.

Additional Sponsoring Agencies: USSR. Gosudarstvennaya planovaya komissiya, Glavnoye upravleniye nauchno-issledovatel'skikh i proyektnykh organizatsiy.

Compilers: A.Ye. Gurevich, Engineer, N.A. Vinogradov, Engineer, and B.V. D'yakov, Engineer; Ed.: A.Ye. Gurevich, Engineer; Tech. Ed.: Z.I. Chernova; Managing Ed. for Information Literature: I.M. Monastyrskiy, Engineer.

PURPOSE: The handbook is intended for use in design bureaus for rough drafts and technical designing. For operational designing

Card 1/10

Reference Data (Cont.) SOV/3142

all handbook data should be checked with catalogs or comply with the manufacturer's specifications.

COVERAGE: The handbook contains basic data and information on electric motors of special and general purpose, on braking electromagnets and on track and limit switches used in the heavy metallurgical industry. It also contains information on d-c and a-c electric motors and on the equipment used in other branches of industry. The handbook was prepared by the Tsentral'noye konstruktorskoye byuro metallurgicheskogo mashinostroyeniya-TsKBMM (Central Design Bureau of Metallurgical Machine Building) of the TsNIITMASh (Central Scientific Research Institute of Technology and Machine Building), and by the design bureaus of the heavy machinery building industries. It has been used in blueprint form for ten years in many organizations. There are no references.

TABLE OF CONTENTS:

Card 2/10

PART I. ELECTRIC MACHINES FOR CRANES AND IN METALLURGY

Reference Data (Cont.) SOV/3142

Card 4/10

Reference Data (Cont.) SOV/3142

Card 6/10

Reference Data (Cont.)

Card 9/10

Reference Data (Cont.) SOV/3142

AVAILABLE: Library of Congress

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8(6) SOV/91-59-9-5/33

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TITLE: Improving Automation and Protection Circuits of PVSS-200 High-Pressure Preheaters

PERIODICAL: Energetik, 1959, Nr 9, pp 10-11 (USSR)

ABSTRACT: The author describes modifications of automation and protection circuits of PVSS-200 high-pressure preheaters. These preheaters are designed for an output of 210 tons of water per hour. They are installed with VK-50, VPT-25 and VT-25-4 turbines. The latter arrangement is shown in a diagram. The automation and protection circuits are designed in such a way that the valves are in an "open" position at rated water discharge. With rated flow of water, the pressure loss in the preheater amounts to 17-23 mm mercury column. With a decrease of the water flow, the pressure on valve 1 is reduced proportionally to the square of the water flow reduction. This will eventually cause a shut-down of the valves and the preheater on a whole,

Card 1/2

Improving Automation and Protection Circuits of PVT-200 High-Pressure Preheaters

when operated with turbines VT-25-4 and VPT-25-3, which work on condensers. Unstable operation of the preheater was observed also with greater flows, when the automatic feed system of boilers caused some shocks. In these cases the temperature of the preheated water is 40-45°C lower. An additional pipeline with a throttle was introduced, which was calculated in such a way that it will develop a supporting force of 200-250 kg on the valve. This force is created by means of a pressure difference of 4-5 atmospheres under the piston in the valve chambers. There is 1 diagram.

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